



---

# Customer information packet

## EM2555T-4G

100HP, 1780RPM, 3PH, 60HZ, 404T, 4484M, OPSB, F

**Part detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | G          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 44E227     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 44WGW390   |
| <b>Layout</b>       | 44LYE227   |
| <b>Eff. date</b>    | 11-19-2024 |
| <b>CD Diagram</b>   | CD0382     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 6#4        |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 09-01-2017 |

## Nameplate

| NP2138LUA    |                            |          |    |          |        |     |            |   |           |      |        |      |
|--------------|----------------------------|----------|----|----------|--------|-----|------------|---|-----------|------|--------|------|
| CAT.NO.      | EM2555T-4G                 |          |    | P/N      |        |     |            |   | ENCLOSURE |      | OPSB   |      |
| SPEC.        | 44E227W390G1               |          | CC | 010A     | FRAME  |     | 404T       |   | S/N       |      |        |      |
| HP           | 100                        |          |    | CLASS    |        | H   | HZ         |   | 60        |      |        |      |
| RPM          | 1780                       |          |    | PH       | 3      | DES |            | A |           |      |        |      |
| VOLT         | 460                        |          |    | KVA-CODE |        |     | H          |   | ODE BRG   | 6312 | DE BRG | 6316 |
| AMP          | 118                        |          |    |          |        |     |            |   |           |      |        |      |
| RATING       | 40C AMB-CONT               |          |    |          | GREASE |     | POLYREX EM |   |           |      |        |      |
| NEMA-NOM-EFF | 95.4                       | PF       | 83 | SER.F.   | 1.15   |     |            |   |           |      |        |      |
|              | 50HZ 100HP 380V 139A SF1.0 |          |    |          |        |     |            |   |           |      |        |      |
| HTR-VOLTS    |                            | HTR-AMPS |    |          |        |     |            |   |           |      |        |      |

**AC Induction Motor Performance Data**

Record # 66624

Typical performance - not guaranteed values

| Winding: 44WGW390-R002 |    |              |   | Type: 4484M                              |    | Enclosure: OPSB |                       |            |
|------------------------|----|--------------|---|------------------------------------------|----|-----------------|-----------------------|------------|
| Nameplate Data         |    |              |   | 460 V, 60 Hz:<br>High Voltage Connection |    |                 |                       |            |
| Rated Output (HP)      |    | 100          |   | Full Load Torque                         |    | 295 LB-FT       |                       |            |
| Volts                  |    | 460          |   | Start Configuration                      |    | direct on line  |                       |            |
| Full Load Amps         |    | 118          |   | Breakdown Torque                         |    | 884 LB-FT       |                       |            |
| R.P.M.                 |    | 1780         |   | Pull-up Torque                           |    | 375 LB-FT       |                       |            |
| Hz                     | 60 | Phase        | 3 | Locked-rotor Torque                      |    | 498 LB-FT       |                       |            |
| NEMA Design Code       |    | A            |   | KVA Code                                 | H  |                 | Starting Current      | 852 A      |
| Service Factor (S.F.)  |    | 1.15         |   | No-load Current                          |    | 46.4 A          |                       |            |
| NEMA Nom. Eff.         |    | 95.4         |   | Power Factor                             | 83 |                 | Line-line Res. @ 25°C | 0.045551 Ω |
| Rating - Duty          |    | 40C AMB-CONT |   | Temp. Rise @ Rated Load                  |    | 47°C            |                       |            |
| S.F. Amps              |    |              |   | Temp. Rise @ S.F. Load                   |    | 57°C            |                       |            |
|                        |    |              |   | Locked-rotor Power Factor                |    | 25.4            |                       |            |
|                        |    |              |   | Rotor inertia                            |    | 15.9 LB-FT2     |                       |            |

**Load Characteristics 460 V, 60 Hz, 100 HP**

| % of Rated Load | 25   | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|------|--------|--------|--------|--------|--------|------|
| Power Factor    | 46   | 70     | 79     | 83     | 85     | 86     | 84   |
| Efficiency      | 92.6 | 95.3   | 95.7   | 95.6   | 95.2   | 94.6   | 95.4 |
| Speed           | 1794 | 1789.8 | 1785.5 | 1780.7 | 1775.5 | 1769.8 | 1778 |
| Line amperes    | 54.2 | 70.6   | 92.8   | 118    | 145    | 173    | 134  |

ABB Motors and Mechanical Inc.

WINDING # 44WG390

Typical performance - not guaranteed values.

100 HP 3 PH 60 HZ 1780 RPM 460 V 4484M

TORQUES (LB-FT): PO=884 PU=375 LR=498 LRA=852





